

## ABSTRACT

A bandwidth boost system is disclosed that increases the bandwidth to a client by transmitting data over both a wireline communication path and a wireless communication path. The bandwidth boost system comprises a wireline transfer system, a wireless transfer system, and a control system. The control system receives a request from the client over the wireline communication path for a first data set and a second data set. The request also asks for a bandwidth boost. The control system processes the request to generate first transmit instructions and second transmit instructions. The control system transfers the first data set and the first transmit instructions to the wireline transfer system and transfers the second data set and the second transmit instructions to the wireless transfer system. The wireline transfer system transmits the first data set to the client over the wireline communication path based on the first transmit instructions. The wireless transfer system establishes the wireless communication path with the client and transfers the second data set to the client over the wireless communication path based on the second transmit instructions. The bandwidth boost system advantageously provides on-demand bandwidth boosts to clients, using the wireless communication path, for applications such as streaming video.